

# SEQUENCE LISTING

<110> Vaisvila, Romualdas  
Morgan, Richard D.  
Raleigh, Elisabeth

<120> Restriction Enzyme Gene Discovery Method

<130> NEB-165PUS

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<141> 1999-06-11

<150> 60/089,086

<151> 1998-06-12

<150> 60/089,101

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<150> PCT/US99/13295

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<160> 130

<170> PatentIn Ver. 2.0

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<210> 5

<211> 77

<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 5  
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ttaaccaagc gttaggt 77

<210> 6  
<211> 87  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 6  
acctaacatg gcgctcaacc gcgctccctt cggtcgctgg acgctgcgcg ataaagccgc 60  
gcagcgccgg ttagctctac gttaggt 87

<210> 7  
<211> 88  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 7  
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gcggcgcccc cttagccaaa cgttaggt 88

<210> 8  
<211> 89  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 8  
acctaacaat gcgctcaact gccgctcact tcgttcgctg gactcgcaaa agctgcgctt 60

ttgctcgccc gttagcttaa tcgttaggt

89

<210> 9

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 9

acctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60  
ttgcctgccc gttagcttaa tcgttaggt 89

<210> 10

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 10

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agcttaatcg ttaggt 76

<210> 11

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 11

acctaacaac tgggtcaagt cgttcgcttc gtcactcgg gaccgggctaa agccggcccc 60  
ttaaccaaac gttaggt 77

<210> 12

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 12

gcctaacaat tggctcaagt cgttcgcttc gctcactcgg gaccggcgaa gccggcccct 60  
tagccaaacg ttaggt 76

<210> 13

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 13

acctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60  
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 14

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 14

gcctaacaag tggttcaaac cgttcgcttc gctcactggg acgggctaaa gcccgcccct 60  
taaccaaacg ttaggc 76

<210> 15

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 15

ctctaacaat gcgctcaact atcgctcact tcgttcgctg gactcgcaaa agctgcgctt 60  
ttgctcgccc gttagcttaa tcgttataa 89

<210> 16

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 16

ttataacaat gcgctcaaat cggttcgcttc gctcactggg acgggctaaa gcccgccctt 60  
tagcttaatc gttaaatt 77

<210> 17

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 17

atttaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcgctt 60  
ttgtctgccc gtttagctta tcgttaggg 89

<210> 18

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 18

ccctaacaaa tggttcaaag ccgttcgctt cgctcactcg ggaccggcta aagccggccc 60  
cttaacacaaa cgtttagag 78

<210> 19

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 19

ctctaacaaa tggttcaagt cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaacacaaac gttaggc 77

<210> 20  
<211> 88  
<212> DNA  
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<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 20  
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tgctcgccgg ttagctcaaa cgtaggc 88

<210> 21  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 21  
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ttaaccaaac gtaggg 77

<210> 22  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 22  
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ttaaccaaac gtaggc 77

<210> 23  
<211> 78  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 23  
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cttaaccaa cgtaggt 78

<210> 24  
<211> 77  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 24  
acctaacaat tggttcaagt cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtaggt 77

<210> 25  
<211> 76  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 25  
gcctaacaac tggttcaagt cactcgcttc gtcgcttcgg gaccggcata gccggccct 60  
taaccaaacg ttaggt 76

<210> 26  
<211> 77  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 26  
gcctaacaat gcgttcaagt cgttcgcttc actcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtaggt 77

<210> 27  
<211> 90  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 27

acctaacaaa cggttcaagt tcgttcgctt cgctcactcc ggacgcccgc aagctacgct 60  
cgcggtcgcc ccttaacctg tccgttaggc 90

<210> 28

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 28

gcctaacaat acgctcaact atcgctcact tcgttcgctg gacgtccaaa agctgcgctt 60  
ttggccgccc gttagcttaa ccgttatgt 89

<210> 29

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 29

acataacaat gcgctcaact gccgctcact tcgttcgctg gacagccaaa agctacgctt 60  
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 30

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 30

gcctaacaag tcgctcaact gccgctcact ccgttcgctg gacagccaaa agctgcgctt 60  
ttgtctgccc gttagcttaa tcgttaggc 89

<210> 31  
<211> 89  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 31  
gcctaacaat gcgctcaact atcgctcact ccgttcgctg gacgtccaaa agctgcgctt 60  
ttggccgccc gttagcttaa tcgttaggc 89

<210> 32  
<211> 76  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 32  
gcctaacaac tggttcaagc cactcgcttc gctcgctcgg gaccgcgtac cgcggccctt 60  
taaccaaagc ttgggc 76

<210> 33  
<211> 78  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 33  
gcccaacaaa cggttcaaga ccgctcgctt tgctcgctcg ggaccggcta aaaccggccc 60  
cttaacaaa cgtaggg 78

<210> 34  
<211> 75  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 34  
gcctaacaac tgggttcaa at cgctcgctcc gctcgctggg accggcgaag ccggccccctt 60  
aaccaaacgt taggc 75

<210> 35  
<211> 76  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 35  
gcctaacaat gcgctcaaag cgctcacttc gttcgctggg accggcgaag ccggccccctt 60  
agcttaatcg ttaggt 76

<210> 36  
<211> 89  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 36  
acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagtcaaa agctgcgctt 60  
ttgcctgccc gttagcttaa tcgttagcg 89

<210> 37  
<211> 64  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 37  
cgctaacaat tcgctgcagg cgcgacggcc ctgacggggc gcggcctgag ctcaaacggt 60  
ataa 64

<210> 38  
<211> 78  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 38

ttataacaat tggttcaagt cgctcgcttc gctcactgcg ggaccggcta aagccggccc 60  
cttaacaaaa cgtaggc 78

<210> 39

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 39

gcctaacaaa tggttcaagt cgctcgcttc gctcattcgg gaccggctaa cgccggcccc 60  
ttagcttaat cgtaggc 78

<210> 40

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 40

gcctaacaat aggttcaagt cgctcgcttc gctcacttgg gaccggctaa agccggcccc 60  
ttaaccaaac gtaggt 77

<210> 41

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 41

acctaactag tggttcaagc cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtaggc 77

<210> 42

<211> 76  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 42  
atataacaat tggttcaaac cgttcgctgc gtcactggg acgggctaaa gcccgccctt 60  
taaccaaacg ttatgc 76

<210> 43  
<211> 87  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 43  
gcataacaat tggctcaagc cgctcgctcc gtcactcgg acgtccgtaa gctacgcttc 60  
cggccgcccc ttagccaaac gttagg 87

<210> 44  
<211> 78  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 44  
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cttaacaaa cgtaggc 78

<210> 45  
<211> 89  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 45

gcctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60  
ttgcctgccc gtttagcttaa tcgttagag 89

<210> 46  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 46  
ctctaacaat gcgctcaaat cgctcactac gtctcgctggg accggctaaa gccggcccct 60  
tagcttaatc gtttagag 77

<210> 47  
<211> 78  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 47  
ctctaacaat tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60  
cttaacccaaa cgtagggg 78

<210> 48  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 48  
ccctaacaaa tggttcaagt cactcgcttc gctcgcttcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtttagag 77

<210> 49  
<211> 78  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 49  
ctctaacaac tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60  
cttaaccaa cgtttaggc 78

<210> 50  
<211> 88  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 50  
atctaacaat tggctcaagt cgttcgcttc gctcactcgg gacgtccaat agctgcgcta 60  
ttggccgccc cttagccaaa cgtttaggc 88

<210> 51  
<211> 78  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 51  
gcctaacaac tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60  
cttaaccaa cgtttaggg 78

<210> 52  
<211> 79  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 52  
ccctaacaaa tggttcaagt cgttccgctt cgctcactgc gggaccggct aatgccggcc 60  
ccttaaccaa acgttaggc 79

<210> 53  
<211> 89

<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 53  
gcctaact gcagtcaacc ggacaccaa ctgtacgcag ttgggtccc tccgctgcgc 60  
tccggtgccg gttactttca acgttaggc 89

<210> 54  
<211> 76  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 54  
gcctaacaat gcgctcaaag cgctcacttc gttcgctggg accggcgaag ccggccccctt 60  
agcttaatcg ttagaa 76

<210> 55  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 55  
ttctaactac tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gttagcc 77

<210> 56  
<211> 89  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 56  
ggctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctacgctt 60

ttgtctgccc gtttagcttaa tcgtagga

89

<210> 57

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 57

gcctaacaac tgggtcaagc cactcacttc gctcgctcgg gaccgcgttc cgcgggccct 60  
taaccaaacg ttgggc 76

<210> 58

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 58

gccaacaat gcgctcaact gccgctcact tcgttcgctg gacgtccaaa agctacgctt 60  
ttggccgccc gtttagcttaa tcgttatgc 89

<210> 59

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 59

gcataacaat tgattcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60  
cttaacaaaa cgtaggc 78

<210> 60

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of

*Pseudomonas Alcaligenes* NEB #585 (ATCC 55044)

<400> 60

gcctaactac tggttcaagt cactcgcttc gctcgctcgg gaccgcgttc cgcggccct 60  
taaccaaagc ttaggc 76

<210> 61

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
*Pseudomonas Alcaligenes* NEB #585 (ATCC 55044)

<400> 61

atctaacaat tggctcaagt cgctcgcttc gtcactcgg gaccggcgaa gccggccct 60  
tagccaaagc ttatgc 76

<210> 62

<211> 87

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
*Pseudomonas Alcaligenes* NEB #585 (ATCC 55044)

<400> 62

gcataacaat tggctcaagc cgctcgctcc gtcactcgg acgtccgtaa gctacgttc 60  
cggccgcccc ttagccaaac gttaggc 87

<210> 63

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
*Pseudomonas Alcaligenes* NEB #585 (ATCC 55044)

<400> 63

gcctaacaaa tggttcaagt cgctcgcttc gtcactcgg gaccggctaa agccggcccc 60  
ttaaccaaagc gttaggc 77

<210> 64

<211> 72

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 64

gcctaactat tcagtcaagc ggacgcaaac cccgctgcg ggtctttgcg ccgcttatct 60  
caagcgtag at 72

<210> 65

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 65

atctaacatg tggttcaagc cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtagag 77

<210> 66

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 66

ctctaacaat tggttcaagc cgctcgcttc gctcgctcgg gatcggcgaa gccggcacct 60  
taaccaaacg ttagag 76

<210> 67

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 67

ctctaacaat tggttcagat cgttcgcttc gctcactgcg ggaccggctg aagccggccc 60  
cttaaccaa cgtaggc 78

<210> 68  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 68  
gcctaactac tgggtcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gttaggc 77

<210> 69  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 69  
gtctaacaat gcgctcaaag cgctcacttc gttcgctggg atcggctaaa gccggcccct 60  
tagcttaatc gttagca 77

<210> 70  
<211> 89  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 70  
tgctaacaat gcgcttaact gtcgctcact tcgttcgctg gatagtcaaa agctgcgctt 60  
ttgtctgtcc gttagcttaa tcgttaggc 89

<210> 71  
<211> 74  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 71  
gcctaacaac tgggttcaaat cgctcgctcc gctcgctggg accggcatag ccggccctta 60  
accaagcgtt agat 74

<210> 72  
<211> 76  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 72  
atctaacaat tgggttaaac cgctcgcttc gctcactggg accggctaaa gccggccctt 60  
taaccaaagc ttaggt 76

<210> 73  
<211> 76  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 73  
gtttaacaac tggttcaagc cgctcgcttc gctcactcgg gaccggctaa attcggcccc 60  
ttagcaaagc ttaact 76

<210> 74  
<211> 78  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 74  
atctaacaat tggttcaagt cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaaaccaag cggttatgc 78

<210> 75  
<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 75

gtataacaat tgggttcaagt cactcgcttc gtcgctcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtttagat 77

<210> 76

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 76

gcataacaag tcgctcaaat cgctcacttc gtttcgctgg gacgggctaa agcccggcccc 60  
ttagcttatt gttaggc 77

<210> 77

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 77

gcctaacaaa tgggttcaagc cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtttagac 77

<210> 78

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of  
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 78

ctctaacaaa tgggttcaagc cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtttagag 77

<210> 79  
<211> 52  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 79  
tcgcttcgct cactgcggga ccggctaaag ccggcccctt aaccaaactg ta 52

<210> 80  
<211> 43  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 80  
taacaattgg ttcaagtcgt tcgcttcgct cactgcggga ccg 43

<210> 81  
<211> 43  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 81  
taactattca gtcaagcgga cgcaaaccgc gctgcgcggt ctt 43

<210> 82  
<211> 43  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 82  
 taacaatgcg ctcaactgcg ctcaacttcgt tcgctggaca gcc 43  
  
 <210> 83  
 <211> 43  
 <212> DNA  
 <213> Unknown  
  
 <220>  
 <223> Description of Unknown Organism: Synthetic  
 Oligonucleotide based on Pseudomonas Alcaligenes  
 NEB#585 (ATCC 55044)  
  
 <400> 83  
 taacaagtgc ctcaactgcc gtcactcgt tcgctggaca gcc 43  
  
 <210> 84  
 <211> 19  
 <212> DNA  
 <213> Unknown  
  
 <220>  
 <223> Description of Unknown Organism: Synthetic  
 Oligonucleotide based on Pseudomonas Alcaligenes  
 NEB#585 (ATCC 55044)  
  
 <400> 84  
 gccccttaac caaacgtta 19  
  
 <210> 85  
 <211> 20  
 <212> DNA  
 <213> Unknown  
  
 <220>  
 <223> Description of Unknown Organism: Synthetic  
 Oligonucleotide based on Pseudomonas Alcaligenes  
 NEB#585 (ATCC 55044)  
  
 <400> 85  
 ccgagtgcgc gaagcgagcg 20  
  
 <210> 86  
 <211> 33  
 <212> DNA  
 <213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 86

aaactcgagg gtcccgagtg agcgaagcga gcg

33

<210> 87

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 87

aaactcgagg gtcccgagcg agcgaagcga gcg

33

<210> 88

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 88

aaactcgagg ctgtccagcg agcgaagcga gcg

33

<210> 89

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 89

aaactcgaga ccgcgagcg gggtttgcgt ccg

33

<210> 90

<211> 31  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 90  
tgctctagac ggccccttaa ccaaacgtta g

31

<210> 91  
<211> 35  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic  
Oligonucleotide based on Pseudomonas Alcaligenes  
NEB#585 (ATCC 55044)

<400> 91  
tgctctagac ggccgcccgt tagcttaatc gttag

35

<210> 92  
<211> 60  
<212> DNA  
<213> Unknown

<220>

<223> Position 2 & 60 - Y = C or T; Position 51 & 59 -  
R = A or G

<220>

<223> Description of Unknown Organism: Consensus  
sequence

<400> 92  
gyctaacaat tcgttcaagc cgacgccgct tcgcggcgcg gcttaactca rgcgtagry 60

<210> 93  
<211> 7  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus

sequence

<220>

<223> Position 4, 5 & 6 - R = A or G; Position 7 - Y = C  
or T

<400> 93

gttrrry

7

<210> 94

<211> 7

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
sequence

<220>

<223> Position 1 - R = A or G; Position 2, 3 & 4 - Y = C  
or T

<400> 94

ryyyaac

7

<210> 95

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
sequence

<220>

<223> Position 5 - R = A or G; Position 6 - Y = C or T

<400> 95

ttagry

6

<210> 96

<211> 24

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 96  
 taacataccc ctgcgttaaa cggt 24

<210> 97  
 <211> 40  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: Consensus  
 Sequence

<400> 97  
 taacagtc aa cgctctcgtc ctgcgccctt acaacgtag 40

<210> 98  
 <211> 74  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: Consensus  
 Sequence

<400> 98  
 ctaacaattg gttcaagtcg ctgcttcgc tcgctcggga ccggctaaag ccggcccctt 60  
 aaccaaacgt tagg 74

<210> 99  
 <211> 19  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: Genomic DNA Of  
 Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 99  
 gccagatggc ggccgttta 19

<210> 100  
 <211> 5  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 100

tctac

5

<210> 101

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 101

gccctatgac agaaaacgct tttttgccgg ttt

33

<210> 102

<211> 10

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 102

ccaacgtccg

10

<210> 103

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 103

atag

4

<210> 104

<211> 9

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 104

tcatcgtcc

9

<210> 105

<211> 21

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 105

cccacgactt aacgcttgcc g

21

<210> 106

<211> 3

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 106

ata

3

<210> 107

<211> 28

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 107

tcagggaaaa ccgcgttttg ccgttcga

28

<210> 108

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 108

ctgaa

5

<210> 109

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 109

gatagg

6

<210> 110

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 110

tcta

4

<210> 111

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 111

actaa

5

<210> 112

<211> 18

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 112  
gccagatgtc ggccgttt 18

<210> 113  
<211> 36  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 113  
gcctctatga tagtaaaagc gcttttttgt cggttt 36

<210> 114  
<211> 6  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 114  
cactga 6

<210> 115  
<211> 5  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA Of  
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 115  
aacta 5

<210> 116  
<211> 8  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 116

ccattgga

8

<210> 117

<211> 30

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 117

taactactct cctcgagccg ccctccgtta

30

<210> 118

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 118

ctaacatggt tcaagcttcg ctactggga ccggctaaag ccggcccctt aaccaaacgt 60  
tagg 64

<210> 119

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 119

gcctaacaat tggttcaagc cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60  
ttaaccaaac gtaggc 77

<210> 120

<211> 32

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 120

aacgtcaacc tccgtctggc cggccttacg tt

32

<210> 121

<211> 50

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 121

aacaggttca acctcctcgc tctggggaccg ccggccctta ccaaacgttg

50

<210> 122

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 122

gcctaacaac tggttcaagt cgctcgcttc gctcgctcgg gaccggctaa agccggcccc 60  
ttaaccaaac gttaggg 77

<210> 123

<211> 45

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 123

aacacgctaa ccgctcctcg tcgctggagc gcgtagcta cgta

45

<210> 124

<211> 75

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 124

ctaacaatgc gctcaactcg ctcaacttcgt tcgctggacc aaaagctcgc ttttggccccg 60  
ttagcttaat cgta 75

<210> 125

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 125

acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcgctt 60  
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 126

<211> 49

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 126

taacacgctc aacgtcctcg tcctggggca agccgccctt agctcgta 49

<210> 127

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 127

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ttag 64

<210> 128

<211> 77  
<212> DNA  
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

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<210> 129  
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<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus  
Sequence

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<210> 130  
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<220>

<223> Description of Unknown Organism: Consensus  
Sequence

<400> 130  
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